

## COUNCIL COMMUNICATION

AGENDA TITLE:

Specifications and Advertisement for Bids for Latex Modified Chip Seal for Various

City Streets, 2000

**MEETING DATE:** 

August 2, 2000

PREPARED BY:

Public Works Director

RECOMMENDED ACTION:

That the City Council approve the specifications for the above project and

authorize advertising for bids.

BACKGROUND INFORMATION:

Chip seals are a combination of asphaltic emulsions and small rocks, similar to slurry seals, but are designed, mixed and applied differently. The City of Lodi has not applied chip seals to our streets for many years. Previously, chip seals were primarily applied to streets that did not have

curb and gutter, such as alleys or streets in relatively undeveloped areas, such as Harney Lane and East Lockeford Street. Since then, there have been many improvements to the asphaltic emulsions (oil), making them better suited for specific problems by adding latex, polymers and rubber. These emulsions were designed to better retain the chips, seal pavement cracks and last longer.

Chip seals have an average life expectancy of approximately nine years in a residential area compared to only five or six years for slurry seal. Some of the pros of chip seals are a more durable surface than slurry seals for only a slightly higher cost, the ability to be driven on immediately, and better crack sealing. The negatives are that the loose gravel can damage vehicles when they travel too fast immediately after application and can create dust prior to being swept. Significant signage to control speeds and early continuous sweeping will control these negatives.

The project calls for 100,345 square yards to be chip sealed. The specifications are on file in the Public Works Department.

**FUNDING:** 

The money for this project will be coming from the Street Fund.

Project Estimate:

\$75,000

Budgeted:

2000/01 fiscal year

Planned Bid Opening Date:

August 16, 2000

Richard C. Prima, Jr. Public Works Director

Prepared by George M. Bradley, Street Superintendent

RCP/GMB/dsg

Attachment

cc: Joel Harris, Purchasing Officer

George M. Bradley, Street Superintendent

APPROVED:

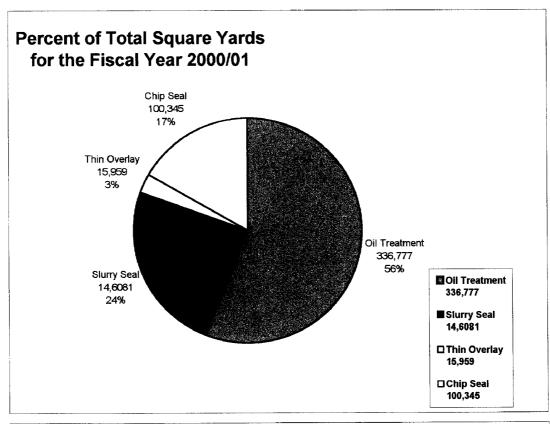
H. Dixon Flynn -- City Manager

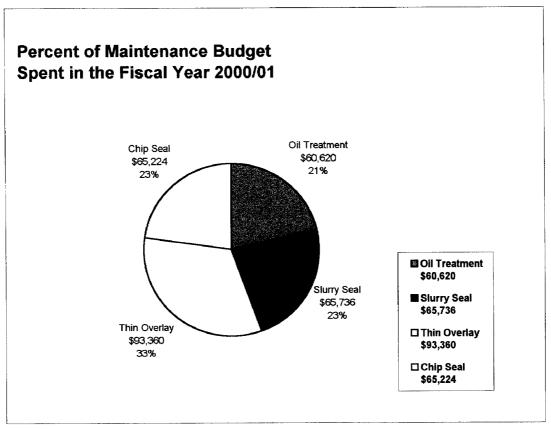
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## 2000 Chip Seal Bid Sheet

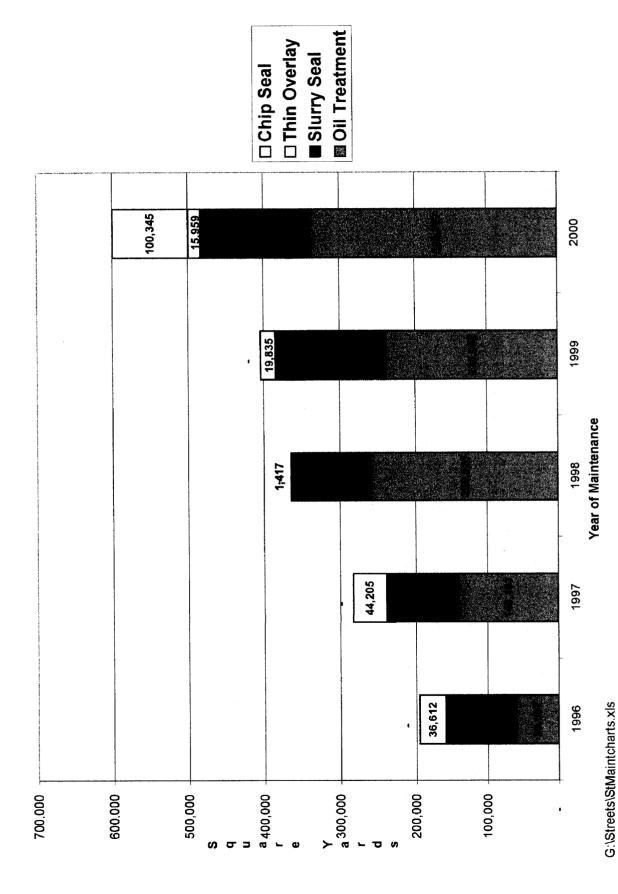
Street Name	Boundaries	Length	Width	Sq. Ft.	Price/SF	Total Bid
Willow Ave	Cochran-Tokay	400	24	9,600	\$	-
Peach St	Cochran-Tokay	400	24	9,600	\$	-
Village St	Church-E/end	580	34	19,720	\$	-
Adobe Ct	Church-E/end	530	32	16,960	\$	-
Hutchins Frontage	Century-end	885	30	26,550	\$	-
Hutchins Frontage	S/Mendocino-S/end	1,050	28	29,400	\$	-
Church St	Century-1923 S. Church	500	39	19,500	\$	_
Aspen Grove Dr	Century-Vineyard	1,380	54	74,520	\$	-
Hemlock Dr	Ridge-Alpine	850	34	28,900	\$	-
Alpine Dr	Hemlock-Vineyard	780	35	27,300	\$	_
Audubon Dr	Vineyard-Alpine	840	35	29,400	\$	_
Meadow Dr	Vineyard-Mulberry	600	35	21,000	\$	-
Fir Dr	Banyon-Meadow	250	36	9,000	\$	-
Vineyard Dr	Hutchins-Aspen Grove	900	53	47,700	\$	-
Vineyard Dr	Aspen Grove-Alpine	370	35	12,950	\$	-
Harney Ln	960' E/Stockton-Stockton	960	24	23,040	\$	-
Harney Ln	Stockton-UPRR	1,250	31	38,750	\$	-
Harney Ln	UPRR-Hutchiuns	1,200	43	51,600	\$	-
Harney Ln	Hutchins-Ham	2,120	43	91,160	\$	
Harney Ln	Ham-WID Canal	650	43	27,950	\$	_
Harney Ln	WID Canal-2630' W/O WID	2,630	24	63,120	\$	-
Crescent Ave	Lodi-424 S.Crescent	400	47	18,800	\$	-
Crescent Ave	424 S. Crescent-Kettleman	4,695	44	206,580	\$	_
					\$	-
TOTAL				903,100	\$	<u>-</u>

QUID 8-2-00





Preventative Maintenance Comparison



## PAVEMENT MAINTENANCE LIFE EXTENSION CHART

	Ye Average Cost of -	ars of Pav Cos	Assumed			
Maintenance Activity	Process	Arterial	Collector ( Hvy. Ind.	/Local	Cul-De-Sac	Extension
OIL TREATMENT (Rejuvenator)	\$ 0.18		2 - 4 \$ 0.06			3
FOG/OIL SEAL	\$ 0.00	N/A	2 - 5 \$ 0.00	3 - 6 \$ 0.00	4 - 6 \$ 0.00	4
SLURRY SEAL	\$ 0.45	3 - 5 \$ 0.11	3 - 6 \$ 0.10	5 - 8 \$ 0.07	6 - 9 \$ 0.06	5
CHIP SEAL**	\$ 0.65	3 - 5 \$ 0.16	4 - 6 \$ 0.13	5 <b>-</b> 9 \$ 0.09	6 - 9 \$ 0.09	6
OVERLAY	\$ 6.50	6 - 10 \$ 0.63	7 - 12 \$ 0.68	8 - 12 \$ 0.48	9 - 11 \$ 0.76	9 - 11
RECONSTRUCTION*	\$32.25	20 \$ 1.69	20 \$ 1.57	20 \$ 1.59	20 \$ 1.57	20

Note: Reconstruction occurs at end of Life Cycle.

Note: Chip seals are normally limited to stop-gap maintenance or pavements without curb and gutters.